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## INTRODUCTION

This manual contains safety information and operating instructions for the Maxon Wheelchair and Standing Occupant Lift. Read and understand the WARNINGS, SAFETY CONSIDERATIONS, and operating instructions in this manual, before operating the Lift.

## SAFETY SUMMARY

# WARNING

- 1. This Wheelchair Lift is intended for Commercial Use and to be operated by an Attendant. Do Not attempt to ride Lift without the assistance of an Attendant.
- 2. Incorrect operation of this Lift can result in serious personal injury. Comply with the WARNINGS and Lift operating instructions in this manual. Do not allow untrained persons to operate the Lift. If you need to replace an Operator's Manual, additional copies are available from:

MAXON Lift Corp. 11921 Slauson Ave Santa Fe Springs, CA 90670 (800) 227-4116

3. Do not exceed rated load capacity of Lift which is **800 lbs. (364 kg).** 

- 4. Do not allow any part of your body, or the Lift occupant's body, to be placed under, within, or around any portion of the moving Lift or its mechanisms, or in a position that would trap them between the platform and the ground (or vehicle) when Lift is operated.
- 5. Consider the safety and location of bystanders and location of nearby objects when operating the Lift. Stand to one side of platform while operating the Lift. Be certain that the area the Lift will move through during operation is clear of all obstacles.
- Fasten Occupant Restraint Belt Before Operating Lift, but never tighten the belt. Leave a minimum of 3" - 4" slack in the belt. Lift will not operate correctly and may become a hazard if belt is tight.
- 7. If Lift is not operated for several days or more it may need to be repressurized. Use manual pump to pressurize the system before operating the Lift again. Low hydraulic pressure may cause Lift to operate incorrectly and become a hazard.

- Always operate the Lift with the vehicle emergency brake set and vehicle parked on <u>Level</u> ground.
  Operating Lift without emergency brake set or parked on an incline may create a hazard for occupant and attendant.
- 9. Comply with all attached instruction decals and warning decals.
- 10. Above all, USE GOOD COMMON SENSE when operating this Lift.
- 11. Do not move vehicle when door is open.

#### ADDITIONAL SAFETY CONSIDERATIONS

- 1. When using the Lift, wheelchair may face outboard or inboard. If possible, position the wheelchair with occupant facing outboard.
- 2. An ambulatory (standing) occupant may face outboard or inboard. If possible, position ambulatory occupant on the Lift, facing the direction of travel (face vehicle when entering or face away when exiting), and holding on the handrails.

## DAILY PRE-OPERATION & OPERATION CHECKLIST

NOTE: PRE-OPERATION and OPERATION CHECKS should be performed by the Lift Operator.

### **PRE-OPERATION CHECKS**

Park vehicle on level ground, shift vehicle transmission to PARK, and set vehicle emergency brake before doing the following checks..

- Visually check Lift for bent or broken parts, or for hydraulic fluid around base. Have hydraulic fluid leaks, and the fluid level in reservoir, checked by a qualified technician.
- Check for hydraulic fluid leaking from cylinders. Lift may be operated if cylinders are "weeping" a light film of hydraulic fluid. If hydraulic fluid drips from either cylinder, have it checked by a qualified technician.
- Check that all Decals are in place, undamaged, and legible (see **DECALS** pages).
  - Check that all anti-slip and safety striping is in place (see **ANTI-SLIP & SAFETY STRIPING** pages).
- If the Lift is dirty, clean it.
- Make sure the ON/OFF switch on the Pump Cover is turned ON. If indicator on the switch is illuminated, Lift has power to operate.

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NOTE: If any of the PRE-OPERATION CHECKS have incorrect indications, do not operate the Lift until repairs are performed by a qualified technician.

#### **OPERATION CHECKS**

Operate the Lift through one full cycle to do the following checks.

- Use Lift operating instructions in this manual to **UNFOLD**, **LOWER**, **RAISE**, and **FOLD** platform.
- Make sure the Lift responds properly to hand control switches.
- Listen for unusual noises while the Lift operates.
- Watch for uneven movement of the Lift arms, platform, and inboard and outboard rollstops.
  - NOTE: If any of the OPERATION CHECKS have incorrect indications, discontinue operating Lift until repairs are performed by a qualified technician.

## MAINTENANCE SCHEDULE

NOTE: The Lift Controller counts the number of cycles & lifts over the lifetime of the Lift. One CYCLE is counted each time the Lift is unfolded from the stowed position to floor level, lowered to the ground, raised to floor level, and then stowed. One LIFT is counted each time the Lift is lowered from floor level to the ground, and raised back to floor level. Read the LIFTS and CYCLES counts from the Lift Controller display window periodically so you know when to do the maintenance checks listed below.

NOTE: Only a qualified technician should do the scheduled maintenance on this page and confirm compliance with Federal Motor Vehicle Safety Standard 403. For the compliance checks, refer to the COMPLETED LIFT INSTALLATION CHECKLIST in Installation Manual MP-04-01.

#### **EVERY 500 LIFTS**

- ☐ Visually check the Lift for bent, broken, or worn out parts, and broken welds.
- Check the electrical wiring for worn insulation, and the terminals for corrosion and secure fit. Apply dielectric grease to connections if needed.
- ☐ Check for loose fasteners (nuts, bolts, screws & rivets). Also, check cotter pins, clevis pins, retaining ring pins & retaining rings for noticeable wear and damage.

- Check that all Decals are in place, undamaged, and legible (see DECALS pages).
- Check that all anti-slip and safety striping is in place and undamaged (see ANTI-SLIP & SAFETY STRIPING pages).

#### EVERY 2500 CYCLES

Replace both latch Solenoids P/N 266955-01

#### EVERY 3000 LIFTS

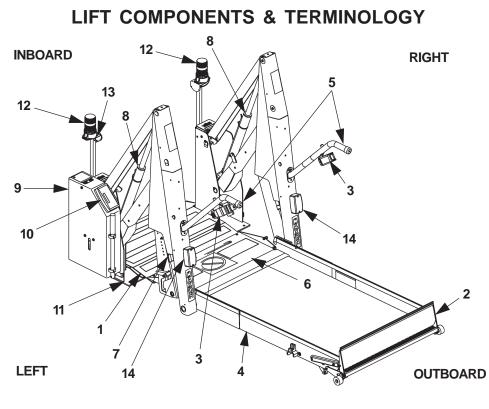
Check the Inboard Rollstop Actuator Assembly wiring connections, routing, and condition from Actuator to Controller. Repair if needed.

#### EVERY 5000 LIFTS

- ☐ Check the large bearing on slider-end of Actuator. If bearing looks worn at first inspection, remove and reinstall bearing with the ends reversed. Replace bearing P/N 266545-03, if follow-on inspections reveal more wear.
- Replace both Platform light bulbs P/N 906475-01.

#### EVERY 10000 LIFTS

☐ Check both Hydraulic Cylinders for leaks. If a film of hydraulic fluid is visible on cylinder seals Lift can still be operated. However, if fluid is dripping from the cylinders, replace them.

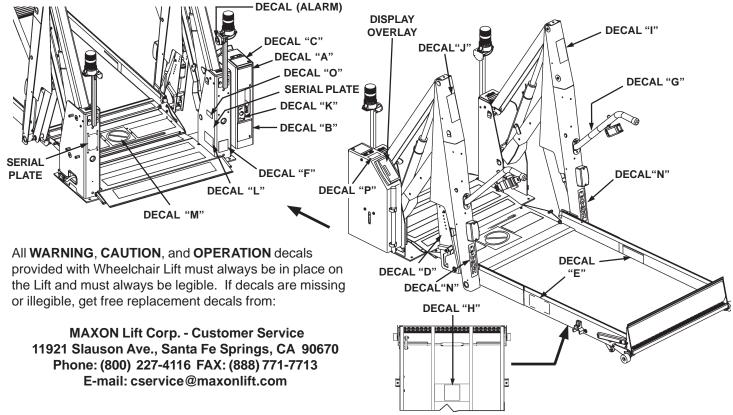


LIFT COMPONENTS (SEE TABLE 9-1) FIG. 8-1

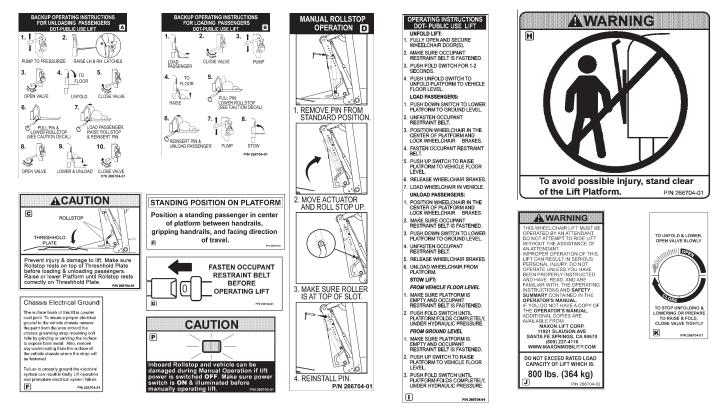
ITEM	NAME	DESCRIPTION
1.	THRESHHOLD PLATE	Component that bridges the entry way, through the Lift, into the vehicle. Detects if that portion of Lift is occupied during "UP/DOWN" operation between vehicle floor and the ground.
2.	OUTBOARD ROLLSTOP	Barrier to prevent the Wheelchair from rolling off of the Platform. Also provides entry/exit ramp for Platform on the ground.
3.	SEAT BELT	Belt that acts as an additional barrier to keep the Wheelchair or ambulatory occupant on the Platform. Belt must be fastened for Lift to operate.
4.	PLATFORM	Contains the Wheelchair and Occupant during "UP/DOWN" operation between vehicle floor and the ground.
5.	HANDRAILS	(Left/Right) Provides a hand hold for the Lift Occupant.
6.	INBOARD ROLLSTOP	Barrier to prevent the Wheelchair from rolling off inboard side of Platform. Also, provides bridge between Platform and Threshhold.
7.	ELECTRICAL ACTUATOR	Raises/lowers Inboard Rollstop.

ITEM	NAME	DESCRIPTION
8.	HYDRAULIC CYLINDER	(Left/Right) Telescoping steel tube and rod, pressurized by hydraulic fluid, that folds and unfolds the Lift and moves the Lift up and down.
9.	HYDRAULIC POWER UNIT (COVER IS SHOWN)	Contains motorized hydraulic pump, manually operated backup pump, fluid lines, and controls to operate the hydraulic cylinders.
10.	LIFT CONTROLLER	Electronic device that controls and monitors Lift operation and the interlock connection with the vehicle.
11.	BASE	Structure that secures Lift to the vehicle floor.
12.	THRESHHOLD WARNING BEACON	Flashing red light indicates Threshhold is occupied by a person or object during "UP/DOWN" operation between vehicle floor and the ground.
13.	THRESHHOLD WARNING ALARM	Audible alarm sounds when Threshhold is occupied by a person or object during "UP/DOWN" operation between vehicle floor and the ground.

### DECALS AND DECAL PLACEMENT



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DECAL SET P/N 266704-01

FIG. 11-1

### **DECALS AND DECAL PLACEMENT - Continued**

The MAXON Lift Corp certifies that this wheelchair lift conforms to all applicable requirements of the Americans w/Disabilities Act of 1990, the National Standards for School Buses and the California Code of Regulations requirements in effect on the date of manufacture.







DOT-



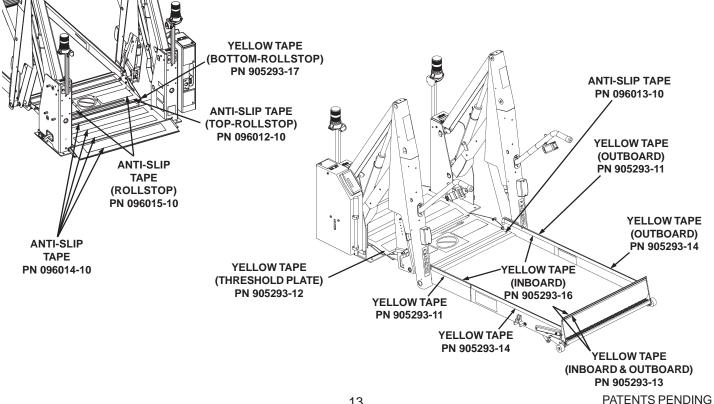


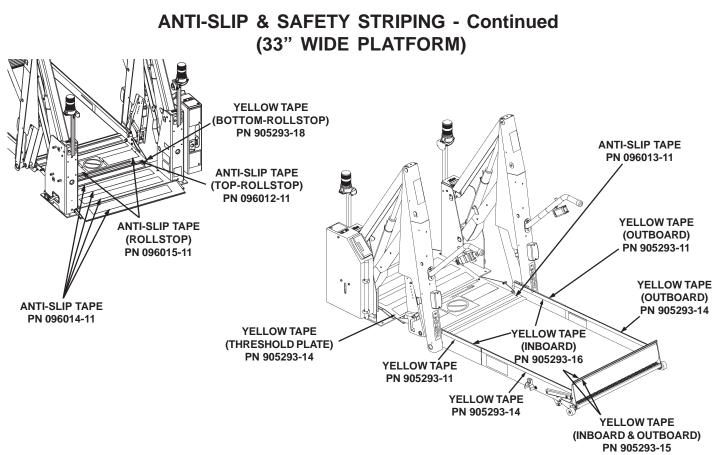
P/N 905246-8



DECAL SET P/N 266704-01 FIG. 12-1

### **ANTI-SLIP & SAFETY STRIPING** (30" WIDE PLATFORM)



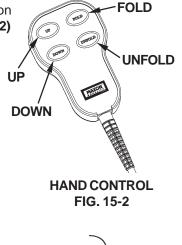


## **OPERATING INSTRUCTIONS**

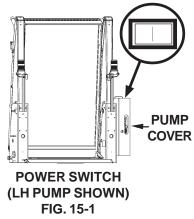
### ENTER VEHICLE

**NOTE:** If equipped, Seat Belt must be fastened for Lift to operate.

1. Fully open and secure Wheelchair Lift access door(s) on the vehicle. 3. Push the **UNFOLD** switch on HAND CONTROL (FIG. 15-2) to unfold PLATFORM to horizontal position (FIG. 15-3). UP



 Apply power to the Lift by turning ON switch on the Pump Cover (FIG. 15-2). The switch is illuminated when turned ON.



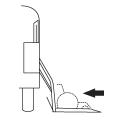
UNFOLD PLATFORM FIG. 15-3

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4. Push the **DOWN** switch on HAND CONTROL (FIG. 14-1) to lower PLATFORM to ground level (FIG. 16-1).

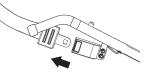


LOWER PLATFORM TO GROUND FIG. 16-1 6. Position wheelchair or ambulatory occupant on the center of PLATFORM (FIG. 16-3). SET WHEELCHAIR BRAKES or SWITCH OFF POW-ERED WHEELCHAIR.



POSITIONING OCCUPANT ON PLATFORM AT GROUND LEVEL FIG. 16-3

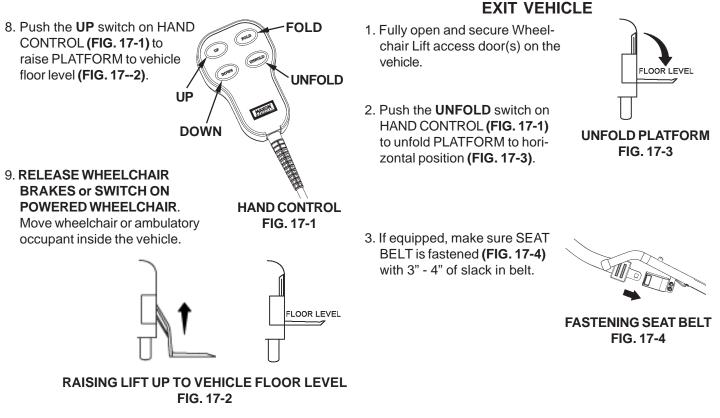
5. If equipped, unfasten SEAT BELT (FIG. 16-2), and place on hanger provided.



UNFASTENING SEAT BELT FIG. 16-2 7. If equipped, fasten SEAT BELT allowing 3" - 4" of slack **(FIG. 16-4)**.



FASTENING SEAT BELT FIG. 16-4



4. Position wheelchair or 6. If equipped, unfasten SEAT ambulatory occupant on BELT (FIG. 18-3) and place the center of platform on hanger provided. (FIG. 18-1). SET WHEELCHAIR **BRAKES OR SWITCH UNFASTENING SEAT BELT OFF POWERED** FIG. 18-3 WHEELCHAIR. POSITIONING OCCUPANT ON 7. RELEASE WHEELCHAIR PLATFORM AT FLOOR LEVEL **BRAKES or SWITCH ON** FIG. 18-1 POWERED WHEELCHAIR. Move wheelchair or ambulatory occupant into the 5 Push the DOWN switch passenger unloading zone. on hand control (FIG. 16-1) to lower PLAT-FORM to ground level (FIG. 18-2). 8. If equipped, make sure SEAT BELT is fastened (FIG. 18-4) with 3" - 4" of LOWERING PLATFORM slack in belt. **TO GROUND FASTENING SEAT BELT** FIG. 18-2 FIG. 18-4

#### STOW LIFT FROM VEHICLE FLOOR STOW LIFT FROM GROUND LEVEL 1. If equipped, fasten SEAT -FOLD BELT allowing 3" - 4" of slack (FIG. 19-3). UNFOLD UP 2. Push the UP switch on HAND CONTROL (FIG. **FASTENING SEAT BELT** DOWN 19-1) to raise PLATFORM to FIG. 19-3 vehicle floor level (FIG. 19-4). Push the FOLD switch on HAND HAND CONTROL CONTROL (FIG.19-1) to close FIG. 19-1 PLATFORM (FIG. 19-2). Fold FLOOR LEVEL operation will stop automatically when completed. **RAISING LIFT UP TO VEHICLE FLOOR LEVEL** FIG. 19-4 3. Push the FOLD switch on HAND CONTROL (FIG. 19-1) to fold PLATFORM (FIG. 19-2). FOLDING PLATFORM Fold operation will stop automati-**UP INTO VEHICLE** cally when completed. FIG. 19-2

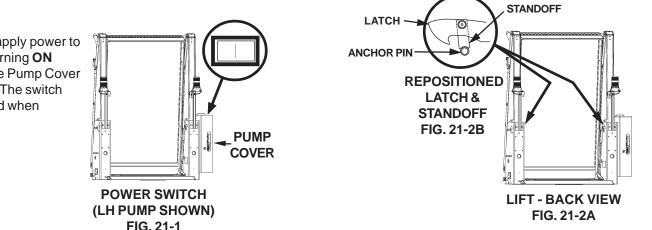
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#### MANUAL PUMP OPERATION

NOTE: If possible, keep the Lift power ON/OFF switch turned **ON**. In most cases, operating the Lift with Manual Pump may be easier if power is ON. Manual pump operating instructions for the Lift are also located on Pump Cover. See DECALS AND DECAL PLACEMENT in this manual.

### LOADING & UNLOADING OCCUPANT

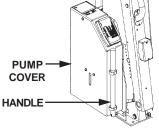
1. Reposition latches to manually unfold the Lift as follows. Raise latch off anchor pin (FIG. 21-2B) on LH side of Lift. Position the standoff to hold latch in place above the anchor pin (FIG. 21-2B). Repeat for latch on RH side of Lift.



If possible, apply power to the Lift by turning ON switch on the Pump Cover (FIG. 21-1). The switch is illuminated when turned **ON**.

#### **MANUAL PUMP OPERATION - Continued**

2. Remove the MANUAL BACKUP HANDLE from clips on the Pump Cover (FIG. 22-1).



4. Observe the PLATFORM unfolding to horizontal position at vehicle floor level (FIG. 22-3).



MANUAL BACKUP HANDLE (LH PUMP SHOWN) FIG. 22-1

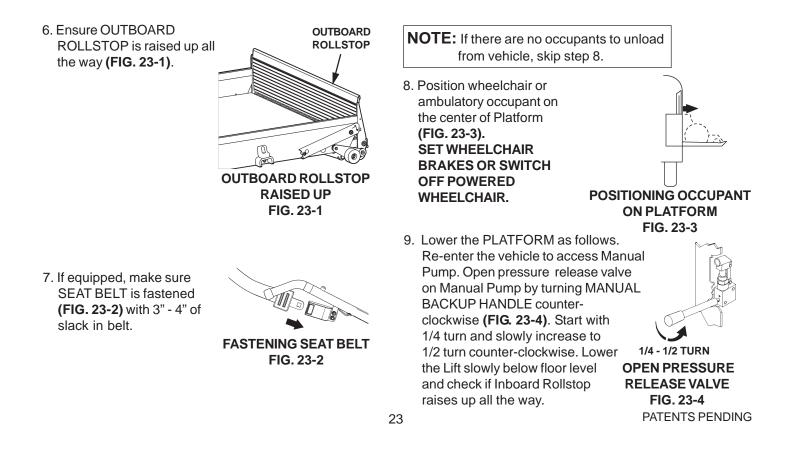
3. Unfold the PLATFORM as follows. Open pressure release valve on Manual Pump by turning MANUAL BACKUP HANDLE counterclockwise **(FIG. 23-2)**. Start with 1/4 turn and slowly increase to 1/2 turn counter-clockwise.

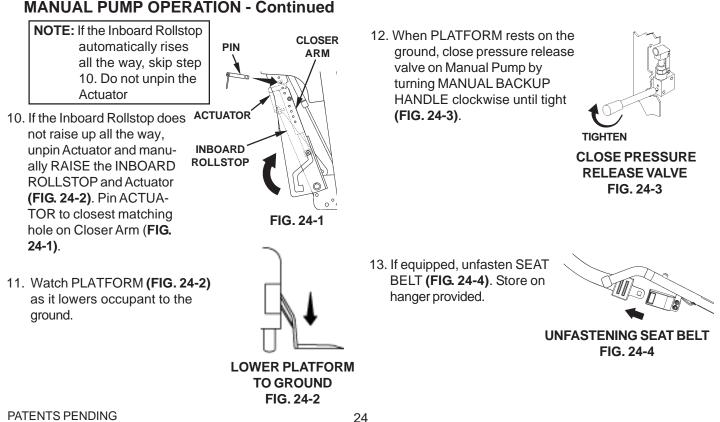


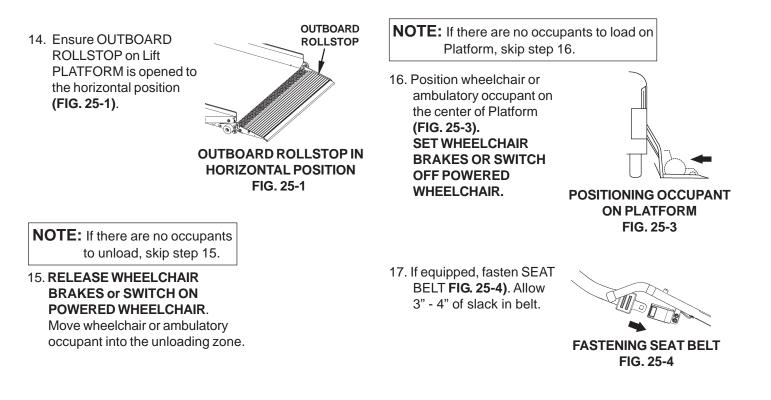
5. When the PLATFORM reaches floor level, close pressure release valve on Manual Pump by turning MANUAL BACKUP HANDLE clockwise until tight (FIG. 23-4).



TIGHTEN CLOSE PRESSURE RELEASE VALVE FIG. 23-4



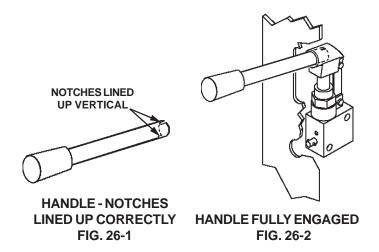




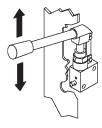
#### **MANUAL PUMP OPERATION - Continued**

# CAUTION

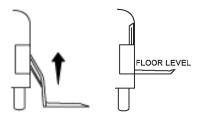
Prevent the MANUAL BACKUP HANDLE from getting damaged. Before you start pumping with the HANDLE, line up notches on tip of HANDLE as shown in FIG. 26-1. Then fully engage HANDLE with Manual Pump as shown in FIG. 26-2.



18. Raise the PLATFORM as follows. Insert MANUAL BACKUP HANDLE in Manual Pump actuator. Pump the handle up and down (FIG. 26-2) until PLATFORM is raised up even with the vehicle floor (FIG. 26-4) and Inboard Rollstop lowers to rest on Threshhold Plate.



PUMPING MANUAL BACKUP HANDLE FIG. 26-3



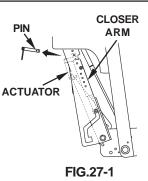
RAISING LIFT TO VEHICLE FLOOR FIG. 26-4

# CAUTION

To prevent damage to Lift and vehicle, Inboard Rollstop must be lowered on the Threshhold Plate before stowing the Lift. If the Inboard Rollstop does not automatically lower, it must be lowered manually. If lowered manually, pin it in position as close as possible to Threshhold Plate.

**NOTE:** If the Inboard Rollstop automatically lowered to Threshhold Plate, skip step 19. Do not unpin the Actuator.

19. If the ACTUATOR will not lower Inboard Rollstop at floor level, unpin ACTUATOR from the Closer Arm (FIG. 27-1).



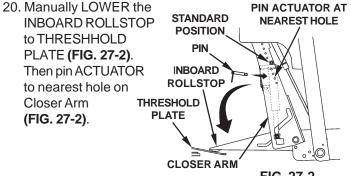


FIG. 27-2

**NOTE:** If there are no occupants to load on Platform, skip step 21.

#### 21. RELEASE WHEELCHAIR BRAKES or SWITCH ON POWERED WHEEL-CHAIR. Move wheelchair or ambulatory occupant inside the vehicle.

#### **MANUAL PUMP OPERATION - Continued**

# CAUTION

To prevent damage to Lift and vehicle, after Lift is restored to correct operation, pin the Inboard Rollstop in STANDARD position (FIG. 27-2).

22. Stow the Lift as follows. Pump the MANUAL BACKUP HANDLE up and down (FIG. 28-1) until PLATFORM folds up tightly inside the vehicle (FIG. 28-2)



